Panasonic

Digital Super Hybrid System

KX-TD816CE

KX-TD1232CE

Added and Changed Features for Installation Manual and Programming Tables Vol. 2

Please read this manual first and then the Installation Manual.
In this manual, the last letter "CE" of each model number is omitted.

Table of Contents

Additions to KX-TD816/1232

Changes

Table of Contents

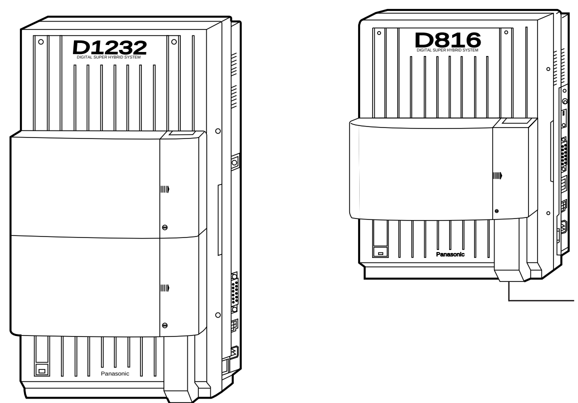
Programming Tables for Added and Changed Features

Additions to KX-TD816/1232

1.4 Options

16 SLT Line Circuit Unit (KX-TD174)

Each unit adds eight extensions which contain two single line telephones. The unit can support 16 single line telephones per unit. One unit for the KX-TD816 and up to two units for the KX-TD1232 can be installed per system.
Each single line telephone in the same jack has different extension number so that it can act as completely different extension like an eXtra Device Port feature.

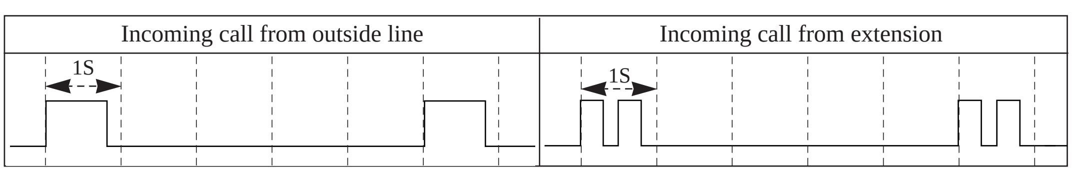


16 single line telephones can be added.

16 or 32 single line telephones can be added.

Note:

- Installing this unit allows the eXtra Device Port setting to “Enable” automatically in system programming [600]. However, assigning “Disable” makes a single line telephone which is connected to the second jack (Jack xx-2) disable to use.
- This unit cannot support the proprietary telephone and Voice Mail Integration features.
- This unit has four DTMF receivers; two receivers in the first eight ports and two receivers in the last eight ports.
- The Ringing Patterns for all single line telephones which are connected to the system are changed as below;



1.4 Options

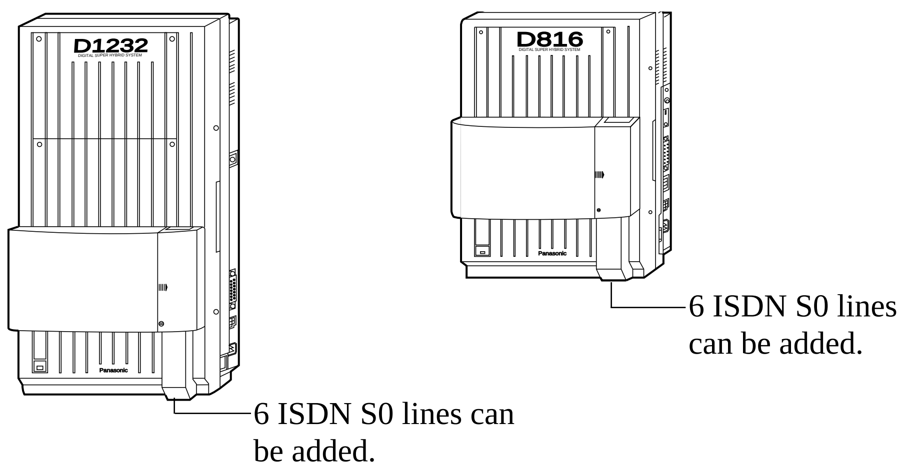
Auxiliary Connection for Power Failure Transfer

When there is a power failure, the first two jacks on this unit can be connected to specific CO lines mentioned below. An auxiliary connection is required to implement this feature. For more information about the connection between an extension jack to a CO line, refer to the "2.5 Auxiliary Connection for Power Failure Transfer" in the main Installation Manual.

KX-TD816	Jack 09-1...CO 5 Jack 10-1...CO 6
KX-TD1232	Jack 17-1...CO 9 Jack 18-1...CO10

ISDN 6-S0 Line Unit (KX-TD286)

One KX-TD286 can be installed per system.



Note

Either one KX-TD280, one KX-TD286 or one KX-TD180 can be installed in a system.

16 SLT Circuit Line Connection

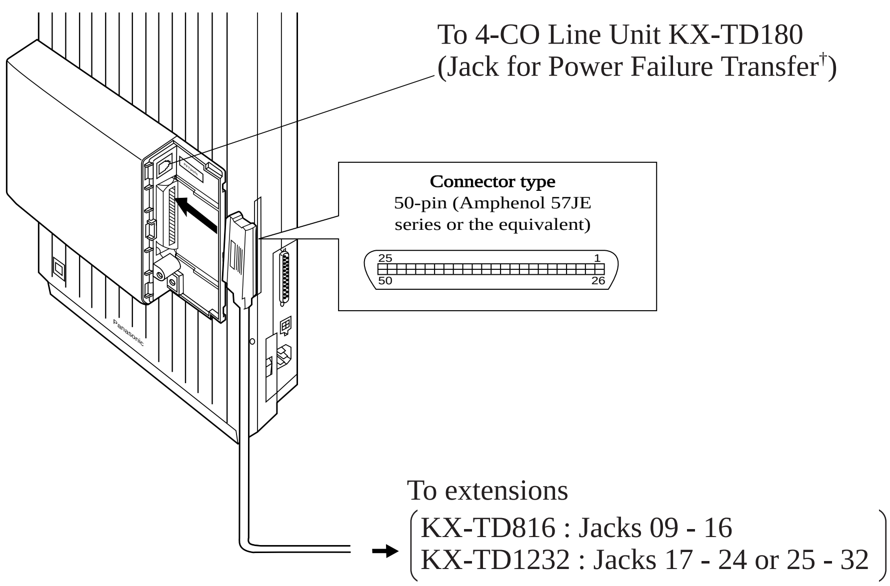
Installing one unit to the system allows 16 single line telephones (SLT's) to be connected to jacks 09 through 16 for the KX-TD816, or jacks 17 through 24 or jacks 25 through 32 for the KX-TD1232. Installing two units allows 32 SLT's to be connected to jacks 17 through 32 for the KX-TD1232.
This unit can be installed to any of the expansion areas provided on the front of the system.
For unit installation, refer to the procedure "Section 2.4.4 "Installing Expansion Unit (KX-TD170/KX-TD180)" in the main Installation Manual. Steps 1 through 5 and 7 through 10 of the installation procedure are the same as the other expansion units. Step 6 is different for each unit. Please note the following instructions below instead of step 6 (Installation Manual) for this unit.

Note
- System Programming [109] Expansion Unit Type is required for the expansion unit location identification.

Installing Expansion Unit (KX-TD174)

Step 6

■ **If the KX-TD174 is installed, use an Amphenol Connector to connect extensions.**
Insert the connector into the jack.



Installing Expansion Unit (KX-TD174)

Note:

- To fix the connector, refer to "Section 2.4.4 "Installing Expansion Unit (KX-TD170/KX-TD180), Amphenol 57 Type (screw-attach-type 50-pin connector) Connection for KX-TD170" in the main Installation Manual.
- For jack connection, please see "Cable Pin Numbers to Be Connected" on the next page.
- †For more information, see "Auxiliary Connection for Power Failure Transfer" in this leaflet.
- The KX-TD1232 is illustrated above.

Cable Pin Numbers to Be Connected

CONN. PIN	Clip Terminal (KX-A205) No.	For KX-TD816		For KX-TD1232 (Expansion 1)		For KX-TD1232 (Expansion 2)	
		Jack No. 9-16		Jack No.17-24		Jack No. 25-32	
26 1	1 2	Jack. 09 - 1	T R	Jack. 17 - 1	T R	Jack. 25 - 1	T R
27 2	3 4	Jack. 10 - 1	T R	Jack. 18 - 1	T R	Jack. 26 - 1	T R
28 3	5 6	Jack. 11 - 1	T R	Jack. 19 - 1	T R	Jack. 27 - 1	T R
29 4	7 8	Jack. 12 - 1	T R	Jack. 20 - 1	T R	Jack. 28 - 1	T R
30 5	9 10	Jack. 13 - 1	T R	Jack. 21 - 1	T R	Jack. 29 - 1	T R
31 6	11 12	Jack. 14 - 1	T R	Jack. 22 - 1	T R	Jack. 30 - 1	T R
32 7	13 14	Jack. 15 - 1	T R	Jack. 23 - 1	T R	Jack. 31 - 1	T R
33 8	15 16	Jack. 16 - 1	T R	Jack. 24 - 1	T R	Jack. 32 - 1	T R
34 9	17 18	Jack. 09 - 2	T R	Jack. 17 - 2	T R	Jack. 25 - 2	T R
35 10	19 20	Jack. 10 - 2	T R	Jack. 18 - 2	T R	Jack. 26 - 2	T R
36 11	21 22	Jack. 11 - 2	T R	Jack. 19 - 2	T R	Jack. 27 - 2	T R
37 12	23 24	Jack. 12 - 2	T R	Jack. 20 - 2	T R	Jack. 28 - 2	T R
38 13	25 26	Jack. 13 - 2	T R	Jack. 21 - 2	T R	Jack. 29 - 2	T R
39 14	27 28	Jack. 14 - 2	T R	Jack. 22 - 2	T R	Jack. 30 - 2	T R
40 15	29 30	Jack. 15 - 2	T R	Jack. 23 - 2	T R	Jack. 31 - 2	T R
41 16	31 32	Jack. 16 - 2	T R	Jack. 24 - 2	T R	Jack. 32 - 2	T R

Installing Expansion Unit (KX-TD286)

ISDN 6-S0 Line Unit Connection

To add six ISDN S0 lines, use the optional ISDN 6-S0 Line Unit (KX-TD286). This unit can be installed in any of the expansion areas provided on the front of the main unit.
When the KX-TD286 is installed in the KX-TD816, only four ISDN S0 lines are available for outside lines and the other ports are for extension lines (ISDN extensions).

System programming is required for unit location identification.

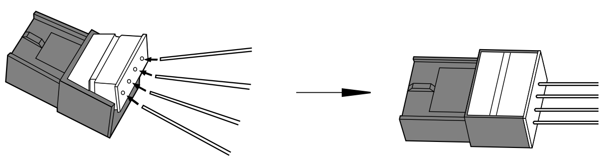
Default KX-TD816: bottom = 4-CO Line Unit,
top = 8-Station Line Unit
KX-TD1232: bottom = 4-CO Line Unit,
middle and top = 8-Station Line Unit

Installing Expansion Unit (KX-TD286)

For unit installation, refer to the procedure “Installing Expansion Unit (KX-TD280)” in the main Added and Changed Features for Installation Manual and Programming Tables. Steps 1 through 5 and 8 through 11 of the installation procedure are the same as the KX-TD280. Step 6 and Step 7 are different from those of KX-TD280. Please note the following instructions below instead of step 6 and step 7 for this unit.

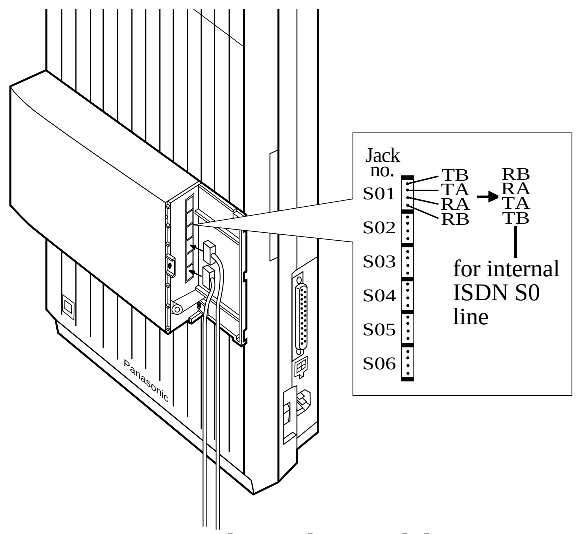
Note • System Programming [109] Expansion Unit Type is required for the expansion unit location identification.

6. Prepare the required plugs. Six 4-pin plugs are included in KX-TD286 to connect CO lines or ISDN terminal equipment.



7. Insert the plug into a jack on the unit. Connect an earth wire to the earth terminal on the extension expansion unit.

KX-TD286



To Terminal Board or Modular Jacks from the Central Office

Note • All ports can be either for CO line or extension line.

Internal ISDN S0 Line Connection

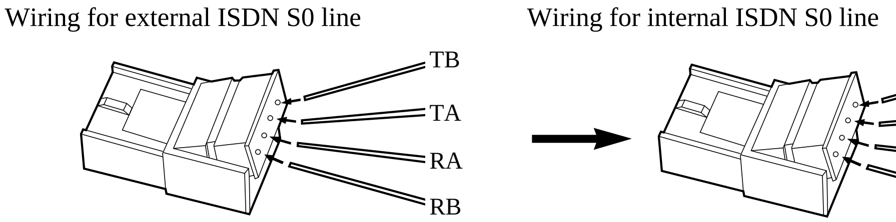
The ISDN S0 Bus on the KX-TD280 and the KX-TD286 can be used as internal S0 bus. Each port can be used as either external or internal ISDN S0 Lines. Some System Programs are required to use the S0 bus as internal ISDN S0 lines beforehand.

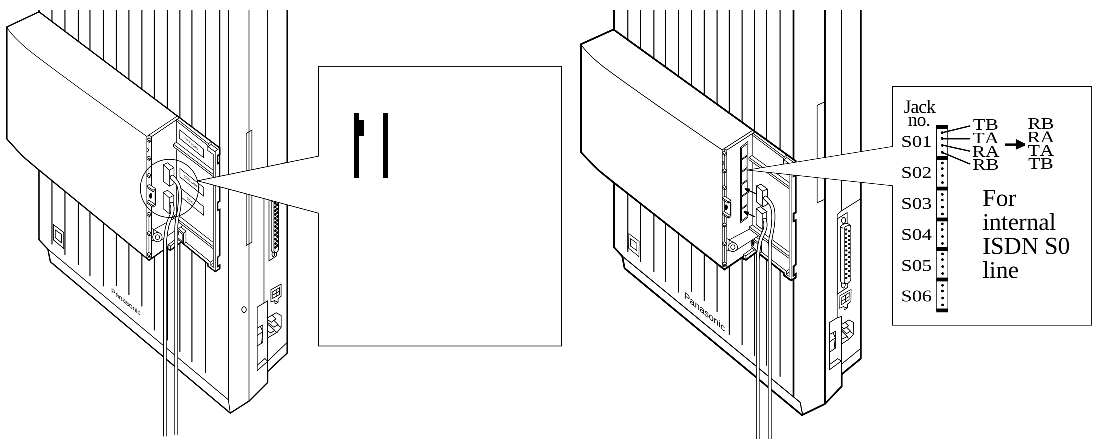
Connection

Use 4-pin plugs (included) to connect ISDN S0 lines. A single plug is able to connect one ISDN S0 line. Mis-connection may cause the system to operate improperly.

1. Re-arrange telephone wires in reverse order of the plug.

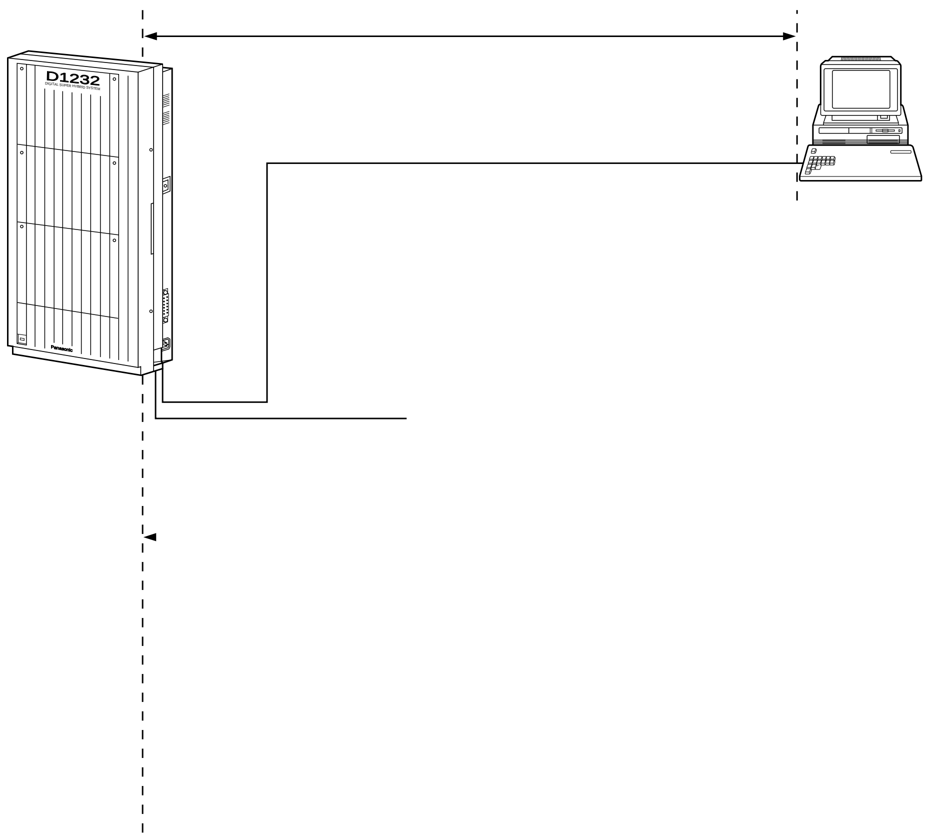
2. Insert the plug into a ISDN S0 port on the unit.





Notes For installing the KX-TD280 or KX-TD286 to main unit, refer to "Installing Expansion Unit" respectably.

3. Connect the lines between the ISDN board and the ISDN device.
4. Plug the AC power cord into the system and an AC outlet.
5. Program "[424] ISDN Port Type" and other required programs in System Programming.
6. Press the Reset Button with a pointed tool on the main unit.


D1232

3 Features

Connection References

In this manual

Section 2, Installation

Internal ISDN S0 Line Connection

Programming References

In this manual

Section 4, System Programming,

[012] ISDN Extension Number Set
[013] ISDN Extension Name Set
[014] Budget Management on ISDN Port
[109] Expansion Unit Type
[424] ISDN Port Type
[425] ISDN Layer 1 Active Mode
[426] ISDN Configuration
[427] ISDN Data Link Mode
[428] ISDN TEI Mode
[429] ISDN Extension Multiple Subscriber Number
[430] ISDN Extension Progress Tone
[613] ISDN Class of Service
[614-615] Outgoing Permitted CO Line Assignment – Day/Night for ISDN Extension

- The possible parameter combinations are listed below. The underlined selections are recommended. The selections marked "*" are activated, regardless of the assignments.

Program	[424] ISDN Port Type	[425] ISDN Layer 1 Active Mode	[426] ISDN Configuration	[427] ISDN Data Link Mode	[428] ISDN TEI Mode
Parameter	CO	Permanent	P–P	Permanent	Fix 0-63 Automatic
		—	P–M (not available)	—	—
	Extension	Call/ Permanent	P–P	Call/ Permanent	Fix 0-63*
		Call/ Permanent	P–M	Call*	Automatic*

Feature References

None

Operation References

None

ISDN Extension Number Set

Description

Assigns an extension number to each port which is connected to the ISDN S0 unit or card.

Selection

- Port number: **KX-TD816—01 through 06**
  KX-TD1232—01 through 12
- Extension Number: **2 or 3 digits**

Default

All ports – Not stored

Programming

1. Enter **012**.

`Display: ISDN EXT NO.`

2. Press **NEXT**.

`Display: Port NO?–>`

3. Enter a **port number**.

To enter a first port number, you can also press **NEXT**.

`Display: #01:Not Stored`

4. Enter an **extension number**.

Budget Management on ISDN Port

Description

Assigns the charge limitation of a call on the ISDN extension port basis.

Selection

- Port number: **KX-TD816—01 through 06,** ∗
  KX-TD1232—01 through 12, ∗
  (∗ =all ports)
- Charge limitation (Charge): **0 through 59999**

Default

All ports – 0

Programming

1. Enter **014**.

   `Display: ISDN Charge Lim.`

2. Press **NEXT**.

   `Display: Port NO?->`

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   `Display example: #01:  0`

4. Enter a **charge limitation**.

   To delete the charge limitation, press **CLEAR**.

5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- If the charge limitation is set “0,” no restriction is applied.
- To assign all port to one selection, press the ∗ key at step 3.
  In this case, the display shows the contents programmed for a first port.
- Port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- The displayed currency denomination can be programmed by [121] Assignment of Denomination.

Feature References

Section 3, Features,
Budget management
Charge Fee Reference

ISDN Port Type

Description

Assigns the type of each port either CO line or extension line on ISDN port basis.

Selection

- Port number: **KX-TD816—01 through 04,** * (* =all ports)
  KX-TD1232—01 through 12, * (* =all ports)
- **CO** (CO line) **/ Extension**

Default

All ports – CO

Programming

1. Enter **424**.

   `Display: ISDN Line Type`

2. Press **NEXT**.

   `Display: Port NO?->`

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   `Display example: #01:CO`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For the KX-TD816, port numbers 05 and 06 are fixed as “Extension.”
- For the KX-TD1232, port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- To assign all ports to one selection, press the * key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Feature References

None

ISDN Layer 1 Active Mode

Description

Assigns the active mode of Layer 1 on ISDN port basis.

Selection

- Port number: **KX-TD816—01 through 06,** * (* =all ports)
  KX-TD1232—01 through 12, * (* =all ports)
- **Permanent / Call**

Default

- KX-TD816 Port 05 and 06– Call; other ports–permanent
- KX-TD1232 All ports – Permanent

Programming

1. Enter **425**.

`Display: L1 Active Mode`

2. Press **NEXT**.

`Display: Port NO?->`

3. Enter a **port number**.

To enter a first port, you can also press **NEXT**.

`Display example: #01:Permanent`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For the KX-TD1232, port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- To assign all ports to one selection, press the * key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Feature References

None

ISDN Configuration

Description

Assigns the configuration on ISDN port basis. This program is available for ISDN extension only.

Selection

- Port number: **KX-TD816—01 through 06,** * (* =all ports)
  KX-TD1232—01 through 12, * (* =all ports)
- **Point** (point to point) **/ Multipoint** (point to multipoint)

Default

- KX-TD816 Port 05 and 06– Multipoint; other ports–Point
- KX-TD1232 All ports – Point

Programming

1. Enter **426**.

```
Display: Access Mode
```

2. Press **NEXT**.

```
Display: Port NO?->
```

3. Enter a **port number**.

To enter a first port number, you can also press **NEXT**.

```
Display example: #01:Point
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For the KX-TD1232, port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- If one equipment is connected to the ISDN port, select "Point." If multiple equipments are connected, select "Multipoint."
- To assign all ports to one selection, press the * key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Feature References

None

4.6 CO Line Programming 427

ISDN Data Link Mode

Description — Assigns the data link mode on ISDN port basis.

Selection

- Port number: **KX-TD816—01 through 06,** ∗ (∗ =all ports)
  KX-TD1232—01 through 12, ∗ (∗ =all ports)
- **Permanent / Call**

Default

- KX-TD816 Port 05 and 06– Call; other ports–Permanent
- KX-TD1232 All ports – Permanent

Programming

1. Enter **427**.

   Display: Data Link Mode

2. Press **NEXT**.

   Display: Port NO?->

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   Display example: #01:Permanent

4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- For the KX-TD1232, port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- To assign all ports to one selection, press the ∗ key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Feature References — None

ISDN TEI Mode

Description

Assigns the Terminal Endpoint Identifier (TEI) mode on ISDN port basis.

Selection

- Port number: **KX-TD816—01 through 06,** ∗ (∗ =all ports)
  KX-TD1232—01 through 12, ∗ (∗ =all ports)
- **Fix 0 through 63 / Automatic**

Default

- KX-TD816 Port 05 and 06– Automatic; other ports–Fix 0
- KX-TD1232 All ports – Fix 0

Programming

1. Enter **428**.

`Display: TEI Assign`

2. Press **NEXT**.

`Display: Port NO?->`

3. Enter a **port number**.

To enter a Port 01, you can also press **NEXT**.

`Display example: #01:Fix 0`

4. Enter the **TEI**.

To change the current entry, press **CLEAR** and the new number. If you do not enter a number, it is automatically assigned as "Automatic."

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For the KX-TD1232, port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- If the "Point" is selected in program [426], assign the fixed TEI. If "Multipoint" is selected, assign "Automatic."
- To assign all ports to one selection, press the ∗ key at step 3. In this case, the display shows the contents programmed for Port 01.
- After this assignment, you should reset the system so that this assignment is effective.

Feature References

None

ISDN Extension Multiple Subscriber Number

Description

Selects whether the Multiple Subscriber Number is allocated to each terminal equipment on ISDN S0 bus or not on ISDN port basis.

Selection

- Port number: **KX-TD816—01 through 06,** ∗ (∗ =all ports)
  KX-TD1232—01 through 12, ∗ (∗ =all ports)
- **Enable / Disable** (no number)

Default

All ports – Disable

Programming

1. Enter **429**.

`Display: MSN Service`

2. Press **NEXT**.

`Display: Port NO?->`

3. Enter a **port number**.

To enter a first port number, you can also press **NEXT**.

`Display example: #01:Disable`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For the KX-TD1232, port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- To assign all ports to one selection, press the ∗ key at step 3. In this case, the display shows the contents programmed for a first port.
- You must assign the extension number to an ISDN terminal beforehand. For details, refer to your terminal's manual.

Feature References

None

ISDN Extension Progress Tone

Description

Enables or disables to send the progress tone to ISDN extension on ISDN port basis.

Selection

- Port number: **KX-TD816—01 through 06,** ∗ (∗ =all ports)
  KX-TD1232—01 through 12, ∗ (∗ =all ports)
- Enable / Disable (no tone)

Default

All ports – Disable

ProgrammingPr

ISDN Class of Service

Description

Programs a Class of Service (COS) number for each ISDN extension port. The COS determines the call handling abilities of each port.
A primary and a secondary COS numbers can be assigned per port.

Selection

- Port number: **KX-TD816—01 through 06,** ∗ (∗ =all ports)
  KX-TD1232—01 through 12, ∗ (∗ =all ports)
- COS number: **1 through 8**

Default

All ports: Primary, Secondary – COS 1, COS 1

Programming

1. Enter **613**.
   `Display: ISDN COS Assign`
2. Press **NEXT**.
   `Display: Port NO?->`
3. Enter a **port number**.
   To enter a first number, you can also press **NEXT**.
   `Display example: #01:COS1,COS1`
4. Enter a **COS number** for primary number.
   To change the current entry, enter the new number.
5. Press ➡.
6. Enter a **COS number** for secondary number.
   To change the current entry, enter the new number.
7. Press **STORE**.
8. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
9. Repeat steps 4 through 8.
10. Press **END**.

Conditions

- There is a maximum of eight Classes of Services. Every ISDN extension must be assigned to a Class of Service and is subject to the COS Programming of programs [500] through [508] and [991].
  The restriction of program [991], field 1, applies only for analog outside lines.
- Port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.
- To assign all ports to one selection, press the ∗ key at step 3. In this case, the display shows the contents programmed for a first port.

Feature References

Section 3, Features,
Class of Service (COS)

4.8 Extension Programming 614-615

Outgoing Permitted CO Line Assignment – Day/Night for ISDN Extension

Description

Determines the CO lines which can be accessed by an ISDN extension in both day and night modes. The extension users can make outgoing outside calls using the assigned CO lines.

Selection

- Port number: **KX-TD816—01 through 06,** ∗ (∗ =all ports)
  KX-TD1232—01 through 12, ∗ (∗ =all ports)
- CO line number: **KX-TD816 – 01 through 08,** ∗ (∗ =all CO lines)
  KX-TD1232 – 01 through 24, ∗ (∗ =all CO lines)
- **Enabl** (enable) / **Disab** (disable)

Default

All ports – all CO lines – Enabl — Day / Night

Programming

1. Enter a **program address (614 for day or 615 for night)**.

   `Display example: CO Out(ISDN) Day`

2. Press **NEXT**.

   `Display: Port NO?->`

3. Enter a **port number**.

   To enter first port number, you can also press **NEXT**.

   `Display example: #01:CO01:Enabl`

4. Enter the desired **CO line number,** or keep pressing ➡ or ⬅ until the desired CO line is displayed.

   To change the current entry, enter the new number.

5. Keep pressing **SELECT** until the desired selection is displayed.
6. Press **STORE**.
7. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
8. Repeat steps 4 through 7.
9. Press **END**.

Conditions

- Port numbers 01 through 06 are for the Master System and 07 through 12 are for the Slave, if available.

- To assign all ports to one selection, press the * key at step 3. In this case, the display shows the contents programmed for a first port.
- To assign all CO lines to one selection, press the * key at step 4. In this case, the display shows the contents programmed for CO 01.
- When you change a port number by pressing **NEXT** or **PREV**, the CO line number is not changed.
  Example #03:CO02.......Pressing **NEXT**....#04:CO02

Feature References

Section 3, Features,
CO Line Connection Assignment – Outgoing
Night Service

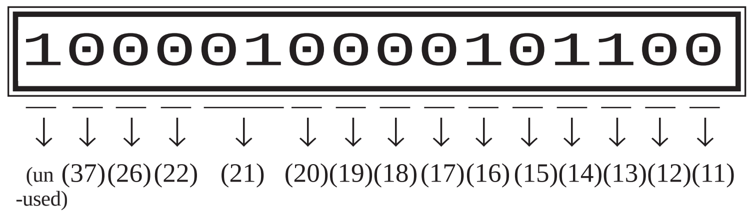
Description

Field (26), (28) through (30) are changed to “unused,” and (37) is added to Area 2, and (38) is added to Area 6.

Area 2

Display example

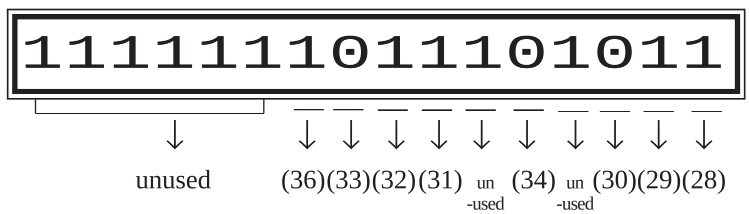
Field number



Area 5

Display example

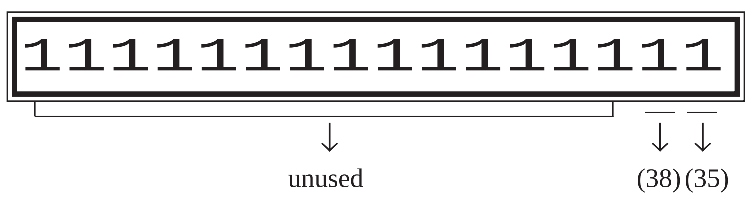
Field number



Area 6

Display example

Field number



Explanation for Area 2

Field	Description	Selection	Default	References
(26)	unused	–	–	–
(37)	Sets the maximum time for detecting a hooking signal from the SLT.	**0** : 1000ms **1** : 136ms	0	None

System Additional Information

Explanation for Area 5 and 6

Field	Description	Selection	Default	Reference
(28)	Unused	—	—	—
(29)	Unused	—	—	—
(30)	Unused	—	—	—
(38)	Programs whether or not the account code is printed out in the SMDR.	**0** : not printed out **1** : printed out	1	SMDR

Selection

- Area code: **01** (area 1) **/ 02** (area 2) / **03** (area 3) / **04** (area 4) **/ 05** (area 5) / **06** (area 6) / **07** through **12** are reserved
- Field number : **01 through 38**
- Selection: See "**Selection**" shown above and [990] program in the Installation Manual.

Default

See "**Default**" in the [990] program in the Installation Manual.

For programming instruction, please refer to the program [990] "System Additional Information" in the Installation Manual.

Changes

FEATURE TITLE	SECTION OF THE MANUAL	REVISION
[418] ISDN Line KLine KLine		

012-014

	[012] ISDN Extension Number Set	[013] ISDN Extension Name Set	[014] Budget Management on ISDN Port
Item: ISDN Port No.	Extension Number (2 or 3 digits)	Name (Max.10 characters)	Charge Limitation: 0 through 59999
Default	All ports: Not stored	All ports: Not stored	All ports: 0
All ports			
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			

<Note> KX-TD816: Ports 01 through 06
KX-TD1232: Ports 01 through 06 for Master and 07 through 12 for Slave

[105] Account Codes					
Item: Location No.	Parameter: Account Code (10 digits max., cosisting of 0 — 9)	Item: Location No.	Parameter: Account Code (10 digits max., cosisting of 0 — 9)	Item: Location No.	Parameter: Account Code (10 digits max., cosisting of 0 — 9)
Default	All: Not Stored				
021		041		061	
022		042		062	
023		043		063	
024		044		064	
025		045		065	
026		046		066	
027		047		067	
028		048		068	
029		049		069	
030		050		070	
031		051		071	
032		052		072	
033		053		073	
034		054		074	
035		055		075	
036		056		076	
037		057		077	
038		058		078	
039		059		079	
040		060		080	

[105] Account Codes					
Item: Location No.	Parameter: Account Code (10 digits max., cosisting of 0 — 9)	Item: Location No.	Parameter: Account Code (10 digits max., cosisting of 0 — 9)	Item: Location No.	Parameter: Account Code (10 digits max., cosisting of 0 — 9)
Default	All: Not Stored				
081		101		121	
082		102		122	
083		103		123	
084		104		124	
085		105		125	
086		106		126	
087		107		127	
088		108		128	
089		109			
090		110			
091		111			
092		112			
093		113			
094		114			
095		115			
096		116			
097		117			
098		118			
099		119			
100		120			

[109] Expansion Unit Type

	KX-TD816									
Area No.	1					2				
Selection	C	S1	S2	E	A	C	S1	S2	E	A
Default	✔								✔	
Parameter										

	KX-TD1232; Master System																				
Area No.	1							2							3						
Selection	C	S1	S2	E1	E2	A1	A2	C	S1	S2	E1	E2	A1	A2	C	S1	S2	E1	E2	A1	A2
Default	✔										✔								✔		
Parameter																					

	KX-TD1232; Slave System																				
Area No.	1							2							3						
Selection	C	S1	S2	E1	E2	A1	A2	C	S1	S2	E1	E2	A1	A2	C	S1	S2	E1	E2	A1	A2
Default	✔										✔								✔		
Parameter																					

<Note>
C: 4CO, S1:2S0, S2:6S0, E and E1:EXT1, E2:EXT2, A and A1: 16SLT1, A2: 16SLT2

418 – 420

	[418] ISDN Line Number Assignment	[419] ISDN Outgoing CLIR Service Assignment		[420] ISDN DDI Service Assignment	
Item : CO Line No.	Parameter : Max. 16 digits	Selection		Selection	
		Enable	Disable	Enable	Disable
Default: All CO lines	Not Stored	✔			✔
All CO lines					
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

<Note>
KX-TD816: CO line Numbers
01 through 08
KX-TD1232: CO line numbers
01 through 12 for Master
and 13 through 24 for Slave

424 – 427

	[424] ISDN Port Type		[425] ISDN Layer 1 Active Mode		[426] ISDN Configuration		[427] ISDN Data Link Mode	
Item: ISDN Port No.	Selection		Selection		Selection		Selection	
	CO	Extension	Permanent	Call	Point	Multipoint	Permanent	Call
Default	All ports: CO		TD816– port 05&06: Call other ports: Permanent TD1232– all ports: Permanent		TD816– port 05&06: Multipoint other ports: Point TD1232– all ports: Point		TD816– port 05&06: Call other ports: Permanent TD1232– all ports: Permanent	
All ports								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								

<Note> KX-TD816: Ports 01 through 06
KX-TD1232: Ports 01 through 06 for Master and 07 through 12 for Slave

428-430, 611

Item: ISDN Port No.	[428] ISDN TEI Mode		[429] ISDN Extension Multiple Subscriber Number		[430] ISDN Extension Progress Tone	
	Selection		Selection		Selection	
	Fix 0 through 63	Automatic	Enable	Disable	Enable	Disable
Default	TD816– port 05&06: Automatic Other ports: Fix 0 TD1232– all ports: Fix 0		All ports: Disable		All ports: Disable	
All ports						
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						

<Note> KX-TD816: Ports 01 through 06
KX-TD1232: Ports 01 through 06 for Master and 07 through 12 for Slave

[611] ISDN DDI Number / Floating Number Transformation	
Item: Floating Ext. No.	Default: All–not stored
	Selection
	Parameter: 1 through 6 digits, consisting of 0 - 9
Operator	
Pager 1	
Pager 2*	
Pager 3*	
Pager 4*	
DISA 1*	
DISA 2*	
MODEM*	
ISDN 1	
ISDN 2	
ISDN 3	
ISDN 4	
ISDN 5	
ISDN 6	
ISDN 7*	
ISDN 8*	
ISDN 9*	
ISDN 10*	
ISDN 11*	
ISDN 12*	

[611]
<Note>
*: available for the KX-TD1232 only.

612-613

Item : Jack No.	[612] Incoming Call Display Default: all jacks – Calling Selection			Item : Jack No.	Default: all jacks – Calling Selection		
	Calling	Called	CO Line Name		Calling	Called	CO Line Name
All jacks							
01				33			
02				34			
03				35			
04				36			
05				37			
06				38			
07				39			
08				40			
09				41			
10				42			
11				43			
12				44			
13				45			
14				46			
15				47			
16				48			
17				49			
18				50			
19				51			
20				52			
21				53			
22				54			
23				55			
24				56			
25				57			
26				58			
27				59			
28				60			
29				61			
30				62			
31				63			
32				64			

[612]
<Note>
Jack No.17 through 64 are for KX-TD1232 only.

Item: Port No.	[613] ISDN Class of Service Default: all ports – Primary, Secondary = COS 1, COS1 Selection: COS No. (1 – 8)							
	1	2	3	4	5	6	7	8
All ports-Primary								
-Secondary								
01 -Primary								
-Secondary								
02 -Primary								
-Secondary								
03 -Primary								
-Secondary								
04 -Primary								
-Secondary								
05 -Primary								
-Secondary								
06 -Primary								
-Secondary								
07 -Primary								
-Secondary								
08 -Primary								
-Secondary								
09 -Primary								
-Secondary								
10 -Primary								
-Secondary								
11 -Primary								
-Secondary								
12 -Primary								
-Secondary								

[613]
<Note> KX-TD816: Ports 01 through 06
KX-TD1232: Ports 01 through 06 for Master and 07 through 12 for Slave

614

[614] Outgoing Permitted CO Line Assignment - Day for ISDN Extension

E : Enable
D : Disable

Item: ISDN Port No.	CO01		CO02		CO03		CO04		CO05		CO06		CO07		CO08		CO09		CO10		CO11		CO12		CO13		CO14		CO15		CO16		CO17		CO18		CO19		CO20		CO21		CO22		CO23		CO24	
	Default: All ports, all CO lines – Enable																																															
	E	D	E	D	E	G	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
All ports																																																
01																																																
02																																																
03																																																
04																																																
05																																																
06																																																
07																																																
08																																																
09																																																
10																																																
11																																																
12																																																

<Note> KX-TD816: Ports 01 through 06

KX-TD1232: Ports 01 through 06 for Master and 07 through 12 for Slave

[615] Outgoing Permitted CO Line Assignment - Night for ISDN Extension

E : Enable
D : Disable

Item: ISDN Port No.	CO01		CO02		CO03		CO04		CO05		CO06		CO07		CO08		CO09		CO10		CO11		CO12		CO13		CO14		CO15		CO16		CO17		CO18		CO19		CO20		CO21		CO22		CO23		CO24	
	Default: All ports, all CO lines – Enable																																															
	E	D	E	D	E	G	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
All ports																																																
01																																																
02																																																
03																																																
04																																																
05																																																
06																																																
07																																																
08																																																
09																																																
10																																																
11																																																
12																																																

<Note> KX-TD816: Ports 01 through 06
KX-TD1232: Ports 01 through 06 for Master and 07 through 12 for Slave

990

[990] System Additional Information

AREA 02 [Fields 11 through 26, and 37]																
Field	Un-used	37	26	22	21		20	19	18	17	16	15	14	13	12	11
Default	—	0	0	0	0	1	1	0	0	0	1	0	1	1	0	0
Selection																
AREA 05 [Fields 31 through 34, and 36]																
Field	Unused						36	33	32	31	Un-used	34	Unused			
Default	—	—	—	—	—	—	1	0	1	1	—	0	—	—	—	—
Selection																
AREA 06 [Fields 35 and 38]																
Field	Unused														38	35
Default	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
Selection																

<Selection>

Field **37** : **0** (1000ms) / **1** (136ms)

38 : **0** (Disable) / **1** (Enable)

: **0** (not printed out) / **1** (printed out)